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[PDF] File placement in a Web cache server

V Soloviev, A Yahin - Proc. 10-th ACM Symposium on Parallel Algorithms ..., 1998 - Citeseer
 ... each **Web** page has several embedded objects that are delivered sequentially, and the access latency for a **Web** page is the ... For one-page les we used it can give the **error** of the I/O time no more than 0.3 ... We start by investigating le placement algorithms for disk **load balancing**. ...
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Evaluating web user perceived latency using server side measurements

M Marshak, H Levy - Computer Communications, 2003 - Elsevier
 ... it: (1) a mirror site, (2) wider connectivity to the Internet, (3) better **Web** server or, (4) **load balancing**. ... full **Web** page with an average **error** of 4% under normal server loads, and an average **error** of 10 ... of the latency, for example, whether the latency is high due to server **load** or due ...
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Method for optimizing off-peak caching of web data

JR Thompson, V Berstis - US Patent 5,961,602, 1999 - Google Patents
 ... URL **queue** 235 is a data structure that identifies the URL of the **Web** site as ... Moreover, although the **queue** 235 is shown as a dedicated **portion** of the memory 206, this ... Moreover, the optimization routine includes a "**load balancing**" function to ensure that content identified by the ...
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[PDF] Load balancing in distributed adaptive task partitioning.

C Achalia, K Kaugars, E De Doncker - ... International Conference on ..., 2003 - csci.csusb.edu
 ... step where a processor transfers multi- ple regions accounting up to a set percentage of its **error** and a ... We found that this model allows for adequate **load balancing** and improves on the previously implemented strategy for the ... 1] <http://www.cs.wmich.edu/parint>, PARINT **web** site. ...
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[PDF] Network processor load balancing for high-speed links

G Dittmann, A Herkersdorf - ... of the 2002 International Symposium on ..., 2002 - Citeseer
 ... and thanks to the one-chip implementation with centralized scheduling, the **balancing** unit knows ... When confronting the **load** balancer with the traffic suite while only flow time-outs are ... Thus, standard **error** analysis as used for repeated measurements in [9] is not applicable here. ...
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Load balancing between multiple web servers

M Vange - US Patent App. 09/835,838, 2001 - Google Patents
 ... [0027] In this manner, the **load balancing** functionality can be performed before the **request** is launched across the public network. ... The **web** site 210 may be hosted on the site owner's own **web** server, or hosted on a **web** server owned by a third **party**. ...
[All 4 versions](#)

[PDF] Kernel mechanisms for service differentiation in overloaded web servers

T Voigt, R Tewari, D Freimuth, A Mehra - Proceedings of the USENIX ..., 2001 - Citeseer
 ... as well as outside the server in layer 4 or 7 switches that perform **load balancing** and content ... As the **load** generated by the competing clients increases, the preferred client's throughput falls ... The device driver copies the received packet into an mbuf, performs **error** checking, and ...
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Data partitioning and load balancing in parallel disk systems

P Scheuermann, G Weikum, P Zabback - the VLDB Journal, 1998 - Springer
 ... that seems more appropri- ate for systems with many clients (eg, **Web** servers or ... Although the prob- lems of data partitioning and **load balancing** are orthog- onal issues, they are ... parallel disk systems that performs automatic data partitioning, data allocation, and **load** balanc- ing ...
[Cited by 177](#) - [Related articles](#) - [All 23 versions](#)

[PDF] TCP servers: Offloading TCP processing in internet servers. design, ...

M Rangarajan, A Bohra, K Banerjee, EV ... - ... Rutgers University, Mar, 2002 - Citeseer

... This is followed by the TCP send, which makes another copy to allow retransmission of the data in case of an **error**. ... An adaptive scheme to **balance** the **load** or resource allocation between the application and TCP server will help server performance. ...

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Managing energy and server resources in hosting centers

JS Chase, DC Anderson, PN Thakar, AM ... - Proceedings of the ..., 2001 - portal.acm.org

... with measurements from a single CPU-bound service running a synthetic **Web** workload with ...

The cen- ter must **balance** the revenue increase from overbooking against the risk ... Examples include **load** changes beyond some tolerance threshold or changes to available resources ...

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Request queue management

A Aziz, T Markson, M Paterson, M ... - US Patent App. 10/301,497, 2002 - Google Patents
 ... 09/630,440, filed on Aug. 2, 2000, which is a continuation-in-part of application No. ... Each tier of a multi-tier VSF (eg, **Web** server tier, application server tier, database server tier, etc) can be dynamically sized based on the **load** on the servers in that particular tier. ...

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A novel web application frame developed by MVC

L GuangChun, WY Lu, X Hanhong - ACM SIGSOFT Software ... , 2003 - portal.acm.org
 ... action logics mainly include the interactive mode, data sources, and **error** handling, etc. ... Center into multiple servers and implement the distributing process and **load balance** only adding ... 4. Relative problems Examining the present **Web** application design patterns (such as CGI ...

[Cited by 9](#) - [Related articles](#) - [All 2 versions](#)
Engineering highly accessed Web sites for performance

J Challenger, A Iyengar, P Dantzig, D Dias, N ... - Lecture Notes in ... , 2001 - Springer
 ... for the page is already pending to the host because of the difficulty of **error** recovery ... objects also can improve performance, caching of encrypted objects can reduce server **load** more significantly ... to be effective is an art requiring the authors to strike a **balance** between information ...

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[PDF] An efficient adaptive load balancing service for CORBA

O Othman, CO Ryan, DC Schmidt - IEEE Distributed Systems Online, 2001 - Citeseer
 ... 5 switching [1] has become a popular technique to determine which **Web** server should ... were increased to exaggerate **load im- balance** and to make the **load balancing** more obvious ... 4 The initial **load** fluctuations **result** from the **load** balancer periodically rebinding clients to less ...

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... ANALYSIS OF FILE TRANSMISSION DURATION DISTRIBUTION OVER THE WEB

KEA Negm - ... International Conference on Intelligent Systems and ... , 2003 - actapress.com
 ... Bytes: the total number of bytes delivered to the client (including **error** ones if ... Each outside server have three mirrors in the inside net, two them have a **load balancing** server. ... The fact that the server **load** is a major cause for the heavy tailed behavior of the TDD is important. ...

[All 3 versions](#)
Modeling information agents: Advertisements, organizational roles, and dynamic ...

K Decker, K Sycara, M Williamson - Proceedings of the AAAI-96 Workshop ... , 1996 - aaai.org
 ... extra enable- ment conditions: first, that the initial advertisement actually completed without **error**, and secondly ... for this limited set of queries, allowing tight con- trol over **load balancing**, greater service ... new class of service we need for our application is graphical **web** page con ...

[Cited by 30](#) - [Related articles](#) - [All 19 versions](#)
Performance and irregular behavior of adaptive task partitioning

E De Doncker, R Zanny, K Kaugars, L ... - Lecture Notes in Computer ... , 2001 - Springer
 ... Log **Error** Ratio Fig. 2. Estimated **error** ratio log curve Fig. ... 2. Elise de Doncker, Ajay Gupta, Alan Genz, and Rodger Zanny. <http://www.cs.wmich.edu/~parint>, ParInt **Web** Site. ... 4. V. Kumar, AY Grama, and NR Vempaty. Scalable **load balancing** techniques for parallel computers. ...

[Cited by 3](#) - [Related articles](#) - [BL Direct](#) - [All 5 versions](#)
System for responding to a resource request

A Jindal, SB Lim, S Radia, WL Chang - US Patent 6,092,178, 2000 - Google Patents
 ... is thus coupled to DNS 100 via network 122, and includes instructions (eg, a **web** browser) for ... with a client's parameters, a default server may be identified, an **error** message may ... Where multiple pre- ferred servers are identified, they may reflect different **load- balancing** policies. ...

[Cited by 32](#) - [Related articles](#) - [All 6 versions](#)
[PDF] Load Characterization and the Implementation of Service Levels in the ...

SD Gribble, A Fox - Class report, UC Berkeley, 1997 - Citeseer

... monitor can page or email the system opera- tor if a serious **error** occurs, for ... ties include tracking the location of distillers, spawning new distillers on demand, **balancing load** across distillers of ... that we adopt must therefore be responsive to rapid changes in offered **load** within a ...

[Cited by 1](#) - [Related articles](#) - [View as HTML](#) - [All 5 versions](#)

Models and issues in data stream systems

B Babcock, S Babu, M Datar, R Motwani, J ... - Proceedings of the ..., 2002 - portal.acm.org

... online to en- able applications such as personalization, performance moni- toring, and **load-balancing**. ... of run-time optimization, Aurora detects resource overload and performs **load** sheddingbased on ... cases one can give confidence bounds on the degree of **error** introduced by ...

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... wide-**web** server with delayed resource-binding for resource-based **load balancing** ...

J Brendel, CJ Kring, Z Liu, CC Marino - US Patent 5,774,660, 1998 - Google Patents

... Stuart T Auvinen [57] ABSTRACT A multi-node server transmits world-wide-**web** pages to ... The **load** balancer waits to perform **load balancing** until after the location of the requested resource ... The connection and URL **request** are passed from the **load** balancer to a second node ...

[Cited by 200](#) - [Related articles](#) - [All 2 versions](#)

System and method for multi-site **load-balancing** of encrypted traffic

P Tenerello, CJ Fickl - US Patent App. 10/375,309, 2003 - Google Patents

... One function of the content director is to perform **load balancing** of resource requests across the various ... the optimal data center to service the **request** (whether due to proximity, **load**, or other ... As a **result**, client requests can be serviced without delay, **error** messages, or the need ...

[All 4 versions](#)

[PDF] **Search** middleware and the simple digital library interoperability protocol

A Paepcke, R Brandriff, G Janee, R Larson, B ... - D-Lib Magazine, 2000 - CiteSeer

... A longer version of this article also discusses **load balancing** and exception handling ... also introduces the XML namespace Dialog, associating it with the Dialog Corporation's **Web** site for ... In those cases, large amounts of **error**-prone software are needed to marshal the necessary ...

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[PDF] Towards highly configurable real-time object **request** brokers

R Kiefstad, DC Schmidt, CO Ryan - Proceedings of the Fifth IEEE ..., 2002 - CiteSeer

... multiplexing, language and OS independence, **load balancing**, fault-tolerance, and security. ... Custom software de- velopment and evolution is labor-intensive and **error**- prone for complex ... more typical two-way invocation, however, the client must also **load** class ReplyReader1_0 ...

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Cooperative caching of dynamic content on a distributed **web** server

V Holmedahl, B Smith, T Yang - Proceedings of the ..., 1998 - doi.ieeecomputersociety.org

... methods for improving performance are file caching with proxies [6, 18, 7], and **load balancing** multi- node ... the actual algorithm of **request** execution; including all the possible **error** conditions would ... **Web** server and configuration is depicted in Figure 3, which shows that Swala ...

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[PDF] On evaluating **request**-distribution schemes for saving energy in server ...

K Rajamani, C Lefurgy - ... of the IEEE International Symposium on ..., 2003 - CiteSeer

... content **web** sites, we employ Power-Aware **Request** Distribution (PARD) at the **load-balancing** front-end ... Due to a manufacturing **error**, our prototype server blades do not properly receive interrupts from ... and 3 servers for a 20 sec- ond startup delay, as otherwise, the **load** on the ...

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Load balancing between multiple **web** servers

M Vange - US Patent App. 09/835,838, 2001 - Google Patents

... overhead associated with transporting a given amount of data, although conventional **request**: acknowledge traffic ... front-ends 201 may be implemented or assigned to particular **web** sites. Client traffic is dynamically directed to available front-ends 201 to provide **load balancing**. ...

[All 4 versions](#)

... study of robust **load** sharing strategies for distributed heterogeneous **Web** server ...

M Colajanni, PS Yu - IEEE Transactions on ..., 2002 - doi.ieeecomputersociety.org

... that distributes the requests based on some optimization criterion, such as **load balancing**, minimization of ... **request**, we can control the subsequent **request load** to reduce the **load** skews that ... each hit **request** establishes a new connection between the client and the **Web** node. ...

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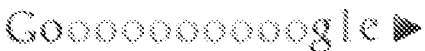
[PDF] WebWave: Globally **load** balanced fully distributed caching of hot published ...

A Heddaya, S Mirdad - International Conference on Distributed ..., 1997 - church-project.org

... delegated from a node i to child j cannot exceed j . Each server participating in WebWave periodically executes the algorithm in Figure 5 attempting to **balance** its **load** with ... When the spontaneous **load** pattern fortuitously allows a GLE **load** distribution to satisfy NSS, **Web**- ...
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Tuning RED for **web** traffic

M Christiansen, K Jeffay, D Ott, FD ... - Proceedings of the ..., 2000 - portal.acm.org
... best RED performance were non-obvious and arrived at only through exhaustive trial-and-error experimentation. ... data (but with the mean reduced by a factor of 10 to generate a heavier **load**). ... If requesting a **web** page, a separate TCP connection, as implied by the HTTP 1.0 ...
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[PDF] Using Design Patterns and Frameworks to Develop Object-Oriented ...

DC Schmidt - Technology of Object-Oriented Languages and ..., 1997 - cs.wustl.edu
 ... Inherent complexity results from funda- mental challenges, eg, Distributed systems Latency **Error** handling Service partitioning and **load balancing** Concurrent systems Race conditions ... 5:PROCESS HTTP REQUEST 31 **Asynchronous** Thread Pool **Web** Server Proactor ...
[Cited by 7](#) - [Related articles](#) - [View as HTML](#) - [All 16 versions](#)

[PDF] WebWave: Globally load balanced fully distributed caching of hot published ...

A Heddaya, S Mirdad - International Conference on Distributed ..., 1997 - church-project.org
 ... delegated from a node i to child j cannot exceed j. Each server participating in WebWave pe- riodically executes the algorithm in Figure 5 attempt- ing to **balance** its **load** with ... When the spontaneous **load** pattern fortuitously al- lows a GLE **load** distribution to satisfy NSS, **Web**- ...
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... study of robust load sharing strategies for distributed heterogeneous Web server ...

M Colajanni, PS Yu - IEEE Transactions on ..., 2002 - doi.ieeecomputersociety.org
 ... that distributes the requests based on some optimization criterion, such as **load balancing**, minimization of ... to the ADNS that excludes it from any further assignment until its **load** falls below ... to provide referred information for linking each **request** to a previous **Web** page **request** ...
[Cited by 18](#) - [Related articles](#) - [BL Direct](#) - [All 8 versions](#)

[PDF] The design and performance of an adaptive corba load balancing service

O Othman, CO Ryan, DC Schmidt - IEEE Distributed Systems Online, 2000 - Citeseer
 ... example, layer 5 switching [1] has become a popular technique to determine which **Web** server should ... a reference to a replica from the **load** analyzer and then forward the **request** to that ... The **load** analyzer also allows a **load balancing** strategy to be selected explicitly at run-time ...
[Cited by 53](#) - [Related articles](#) - [View as HTML](#) - [All 17 versions](#)

Summary cache: a scalable wide-area web cache sharing protocol

L Fan, P Cao, J Almeida, AZ Broder - IEEE/ACM Transactions on ..., 2000 - portal.acm.org
 ... Different re- placement algorithms [10] may give different results. Also, sep- arate simulations have confirmed that in case of severe **load im- balance**, the global cache will have a better cache hit ... A third kind of **error**, remote stale hits, occurs in both sum- mary cache and ICP. ...
[Cited by 1090](#) - [Related articles](#) - [BL Direct](#) - [All 43 versions](#)

[PDF] ... of Robust Load Sharing Strategies for Distributed Heterogeneous Web ...

W Web - IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ..., 2002 - scilib.kiev.ua
 ... that distributes the requests based on some optimization criterion, such as **load balancing**, minimization of ... to the ADNS that excludes it from any further assignment until its **load** falls below ... to provide referred information for linking each **request** to a previous **Web** page **request** ...
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Cooperative caching of dynamic content on a distributed web server

V Holmedahl, B Smith, T Yang - Proceedings of the ..., 1998 - doi.ieeecomputersociety.org
 ... methods for improving performance are file caching with proxies [6, 18, 7], and **load balancing** multi- node ... the actual algorithm of **request** execution; including all the possible **error** conditions would ... **Web** server and configuration is depicted in Figure 3, which shows that Swala ...
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[PDF] ... and evaluation of transparent fault-tolerant web service with kernel-level ...

N Aghdaie, Y Tamir - 11th IEEE International Conference on Computer ..., 2002 - Citeseer
 ... The backup forwards a packet only after the packet passes through the kernel code where a packet may be dropped due to a detected **error** (eg, checksum) or heavy **load**. ... The "unreplicated" system is the standard system with no kernel or **web** server modifications. ...
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Systems and methods that employ correlated synchronous-on-asynchronous ...

KB Smith, DN LaSalle, AJ Sagar, JE ... - US Patent App. 10/ ..., 2003 - Google Patents

... The novel sys- tems and methods employ a dynamic **balancing** approach to parse and delineate ...
Thus, the process engine that is expected to become the lowest **load** process engine or ...
Subsequent results can be discarded, utilized for **error** checking, employed in place of the ...

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Data partitioning and **load balancing** in parallel disk systems

P Scheuermann, G Weikum, P Zabback - the VLDB Journal, 1998 - Springer

... that seems more appropri- ate for systems with many clients (eg, **Web** servers or ... Although the prob- lems of data partitioning and **load balancing** are orthog- onal issues, they are ... parallel disk systems that performs automatic data partitioning, data allocation, and **load** balanc- ing ...

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